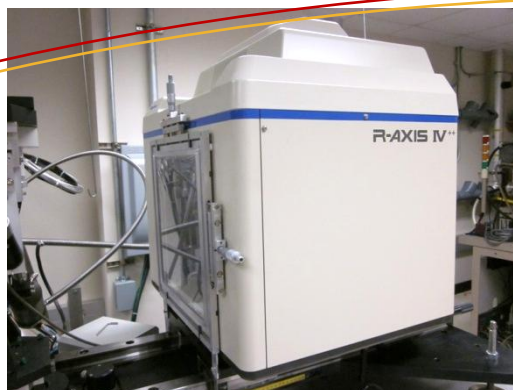


Institute of Molecular Biophysics (IMB)

Florida State University

X-Ray Crystallography Facility



We use Rigaku R-Axis IV++ image plate detector to collect x-ray diffraction data from home x-ray generator.

INSTRUMENTATION

IMB X-Ray Crystallography

Facility provides instrumentation for crystallization, crystal storage, diffraction data collection, and data processing.

TRAINING

Facility provides training to students, post-docs and staff in macromolecular crystallization, x-ray diffraction data collection, processing and visualization.

EXPERTISE

The Facility provides expertise in macromolecular crystallization, x-ray diffraction data collection at the home x-ray source and at synchrotron x-ray beam line in Argonne National Laboratory.

for collecting diffraction data. Linux / Windows computers are used for data collection and processing. Incubator and cold room is available for crystal growth. The Facility also coordinates access to remote x-ray data collection at 3rd generation synchrotron beam lines at Advanced Photon Source at Argonne National Lab, Argonne, IL. User training and software help is available at all stages of data collection and processing both for home and synchrotron data. User fees are charged to cover consumable expenses and synchrotron beam line contract. ■

- One of the four Core Facilities at the Institute of Molecular Biophysics
- Provides training for students and post-docs on crystal set-up and characterization
- Provides instrumentation and expertise in x-ray diffraction data collection and processing
- Coordinates remote synchrotron x-ray data collection at Argonne, IL
- Nominal fees are charged to cover consumables expenses

The multi-user x-ray crystallography facility at the Institute of Molecular Biophysics (IMB) provides the instruments and expertise for collecting and processing x-ray diffraction data from macromolecular single crystals. It is one of the four IMB Core Facilities available to all the members of Florida State University. The Facility occupies 500 ft² of specifically designed space for crystal growth and data collection. It provides training for users on macromolecular crystallization and x-ray data collection. Rotating anode x-ray generator and image plate is used

Contact

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SERVICES PROVIDED

- ❖ Crystallization screens
- ❖ Crystallization training
- ❖ Crystallization chambers
- ❖ Crystal storage and shipping
- ❖ X-Ray diffraction
- ❖ Data collection training
- ❖ Data collection and processing
- ❖ Data modeling and visualization
- ❖ Synchrotron beam scheduling
- ❖ Remote data collection

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